# TAFESA Adelaide South Institute (Adelaide City Campus) Information Technology Studies

# Advanced Diploma of Computer Systems Technology (ICA60511)

# Incorporating Certificate III in Information, Digital Media and Technology (ICA30111) and Certificate IV in Information Technology (ICA40111)

In May 2012 the South Australian Government released details of new funding arrangements for VET qualifications. This funding includes eligibility requirements for receiving government subsidised training. Details of the new arrangements, known as Skills For All, can be found at [**www.skills.sa.gov.au**](http://www.skills.sa.gov.au).

TAFESA South has responded to the new Government funding arrangements and this document provides the details for the offerings in

* the new **Advanced Diploma of Computer Systems Technology**
* the new **Certificate IV in Information Technology** providing some of the necessary underpinning skills and knowledge for the new Advanced Diploma
* a version of the **Certificate III in Information, Digital Media and Technology** providing some of the necessary underpinning skills and knowledge for the new Certificate IV and Advanced Diploma

There are a number of possible study plans with the recommended study plan having the following key features:

* The Advanced Diploma contains a combination of Networking, Programming and Web Development skills.
* If you are only interested in one field of specialisation, such as Networking, Programming or Web Development this is **NOT** the qualification for you. You should refer to our specialised Diplomas, in particular:  
  + Advanced Diploma of Network Security
  + Diploma of Website Development
  + Diploma of Software Development
* The recommended study plan will take a new student with previous fundamental IT experience (such as would be gained with a Certificate II in IT) 2 years to complete but will have a Certificate III exit point after 6 months and a Certificate IV exit point after 12 months. This plan includes the necessary underpinning skills and knowledge for the Advanced Diploma component.
* In the networking content there is a focus on the **CISCO CCNA curriculum,** anintroduction to **Network Security** and **Windows Server** Administration.
* In the web content there is a focus on using **HTML5 and JavaScript** to develop dynamic web pages, and mobile website development.
* In the programming content there is a focus on **mobile application development** with a Windows Mobile development subject with C#, an Android mobile development subject with Java.

For details of the competencies see pages 7 to 14.

**If you are not sure which study plan to choose follow the study plan guidance section on page 6.**

**Skill Area Covered**

The following table summarises the skills areas covered in each subject in the recommended study plan.

|  |  |
| --- | --- |
| Skill Area | Subject |
| Networking |  |
| CISCO - Discovery | 3ITE, 3CDH, 4CDB,5CDR, 5CDD |
| Network Security | 6CNSA, 6NPS |
| Enterprise Wireless | 6EWS |
| Server Admin | 5NIST, 5CNW |
| Virtual Machines | 4IVM |
| Web Development |  |
| HTML5 | 4HTMLB, 5MWDB |
| JavaScript | 4JSB, 4WAP |
| PHP | 5PHPB |
| Programming |  |
| C#/ASP | 3PRB, 5DWS, 6C#MA |
| Java | 4JAB, 5JAM, 5JAWB |
| Database Development |  |
| Databases – MySQL | 4DBB |
| Other |  |
| Business Skills | 3PITA,3SWP, 4CEP, 3CUD,3WHS,4UMLB |
| Project Management | 6MITP, 6SIMP |

**Study Plan 1 (2 Semesters or 1 Year) – Requires underpinning skill and knowledge**

The following table shows the study plan for the Advanced Diploma of Computer Systems Technology. Each stage is one Semester (or 6 months) in length for full-time students. The length of time for part-time students will depend on the number of subjects you wish to study in each semester. The following underpinning skills and knowledge is assumed:

* Cisco 1 & 2, as would be covered in the following subjects - 3CDH, 4CDB
* Virtual Machine Usage, as would be covered in the following subjects – 4IVM
* HTML/Javascript, as would be covered in the following subjects – 4HTML,4JSB, 4WAP
* Programming Basics & Java, as would be covered in the following subjects – 3PRB,4JAB
* Database basics & SQL, as would be covered in the following subjects – 4DBB

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Year** | | | | |
| **Stage 1** | | **Stage 2** | | |
| **Term 1** | **Term 2** | | **Term 1** | **Term 2** |
| 5CDR(9x6)  5MWDB (9x4)  5NIST(9\*6)  5MWDB(9\*4) | 5CDD(9x6)  5CNW(9x6) | | 6CNSA(9x3)  5JAWB(9x3)  6SIMP(9x3) | 6EWS(9x6) |
| **Semester** | | | **Semester** | |
| 5PHPB(18\*3)  5JAM (18x3)  5DWS(18x3) | | | 6NPS (18x3)  6C#MA(18x3)  6MITP(18x3) | |
|  | | |  | |
| No exit qualification after this Stage | | | Exit with ***Advanced Diploma of Computer Systems Technology*** | |

Notes:

* Brackets after subject indicate weeks and hours per week, for example, 3PRB(9x3) indicates that this subject is planned to be offered over 9 weeks at 3 hours per week.
* Timetable is subject to change. You should refer to the Course Reference Numbers document (CRN document) for actual delivery dates, days and times. A new version of this document is released every semester.

**Study Plan 2 (4 Semesters or 2 Years) – Includes early exit options and underpinning skills**

The following table shows the **recommended** study plan for the Advanced Diploma of Computer Systems Technology with exit options and covering underpinning skills and knowledge. Each stage is one Semester (or 6 months) in length for full-time students. The length of time for part-time students will depend on the number of subjects you wish to study in each semester.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Year 1** | | | | **Year 2** | | | | |
| **Stage 1** | | **Stage 2** | | **Stage 3** | | **Stage 4** | | |
| **Term 1** | **Term 2** | **Term 1** | **Term 2** | **Term 1** | **Term 2** | | **Term 1** | **Term 2** |
| 3ITE (9x6)  3WHS(OL)  3CUD(OL)  3SWP(OL)  4HTMLB(9x3)  3PRB(9x3)  4IVM(9x2) | 3CDH(9x6)  4JSB (9x3)  3PITA(5x6)  4CEP(OL) | 4JAB(9x6)  4UMLB(3x9) | 5NIST(9x6)  4DBB(9x6) | 5CDR(9x6)  5MWDB (9x4) | 5CDD(9x6)  5CNW(9x6) | | 6CNSA(9x3)  5JAWB(9x3)  6SIMP(9x3) | 6EWS(9x6) |
| **Semester** | | **Semester** | | **Semester** | | | **Semester** | |
| *There are no semester length subjects in stage 1* | | 4CDB (18x3)  4WAP (18x3)  5PHPB(18x3) | | 5JAM (18x3)  5DWS(18x3) | | | 6NPS (18x3)  6C#MA(18x3)  6MITP(18x3) | |
| **Skill Sets** | | | | | | | | |
|  | |  | |  | | |  | |
| **Exit Qualifications** | | | | | | | | |
| Exit with the ***Certificate III in Information, Digital Media Technology*** | | Exit with the ***Certificate IV in or Transfer to specialist Cert IV*** | | No exit qualification after this Stage | | | Exit with ***Advanced Diploma of Computer Systems Technology*** | |

Notes:

* Brackets after subject indicate weeks and hours per week, for example, 3PRB(9x3) indicates that this subject is planned to be offered over 9 weeks at 3 hours per week.
* Timetable is subject to change. You should refer to the Course Reference Numbers document (CRN document) for actual delivery dates, days and times. The document released every semester.

**Study Plan 3 (4 Semesters or 2 Years) – No early exit qualifications but includes underpinning skills**

The following table shows the study plan for the Advanced Diploma of Computer Systems Technology with **NO** exit options at the end of the semester or the first year but still covering underpinning skills and knowledge. Each stage is one Semester (or 6 months) in length for full-time students. Subjects omitted from study plan 2 are – 3CUD, 3SWP, 3PITA, 3ITF, 3ITA, 4CEP, 4UMLB.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Year 1** | | | | **Year 2** | | | |
| **Stage 1** | | **Stage 2** | | **Stage 3** | | **Stage 4** | |
| **Term 1** | **Term 2** | **Term 1** | **Term 2** | **Term 1** | **Term 2** | **Term 1** | **Term 2** |
| 3CDH(9x6)  4HTMLB(9x3)  3PRB(9x3)  4IVM(9x2) | 4CDB (9x6)  4JSB (9x3)  4DBB(9x6) | 4JAB (9x6)  5CDR(9x6) | 5CDD(9x6)  5NIST(9x6) | 6CNSA(9x3)  5MWDB(9x4) | 5CNW(9x6) | 5JAWB(9x3)  6SIMP(9x3) | 6EWS(9x6) |
| **Semester** | |  | |  | |  | |
| *There are no semester length subjects in stage 1* | | 4WAP (18x3)  5PHPB(18x3) | | 5JAM (18x3)  5DWS(18x3)  6NPS(18x3) | | 6C#MA( 18x3)  6MITP(18x3) | |
| **Skill Sets** | | | | | | | |
|  | |  | |  | |  | |
| **Exit Qualifications** | | | | | | | |
| No exit qualification after this Stage | | No exit qualification after this Stage | | No exit qualification after this Stage | | Exit with ***Advanced Diploma of Computer Systems Technology*** | |

Notes:

* Brackets after subject indicate weeks and hours per week, for example, 3PRB (9x3) indicates that this subject is planned to be offered over 9 weeks at 3 hours per week.
* Timetable is subject to change. You should refer to the Course Reference Numbers document (CRN document) for actual delivery dates, days and times. The document released every semester.

## Choosing an Advanced Diploma Study Plan

Using the subject descriptions mark which ones you think you already know and make an appointment to discuss your personal study pathway by contacting us using the details provide on page 15.

I am interested in achieving the Advanced Diploma of Computer Systems Technology but have prior experience or knowledge and/or I am not sure what my study plan would be.

Do not use these study plans. See the specialist offerings:

* Advanced Diploma of Network Security
* Diploma of Website Development
* Diploma of Software Development
* **I am only interested in achieving skills in one major area not all three**
* I am not interested in Networking and Programming and Web Development, just one of them

**Recommended Study Plan**

Go to Page 4 for details of the subjects you will need to study in each semester.

Go to Page 5 for details of the subjects you will need to study in each semester.

I am interested in achieving the Advanced Diploma of Computer Systems Technology – ICA60511 but also

* My main aim is to keep the cost of achieving the Advanced Diploma to a minimum.
* I do not mind missing out on early exit options such as the Certificate III or Certificate IV
* I Understand that I will need to do a mixture of Networking, Programming and Web Development subjects

**This is the Recommended Study Plan**

I am interested in achieving the Advanced Diploma of Computer Systems Technology – ICA60511 but also

* Achieving the Certificate III in the first 6 months
* Achieving the Certificate IV in the first 12 months
* Maximising my underpinning skills and knowledge
* I Understand that I need to pay for the underpinning skills and knowledge component
* I Understand that I will need to do a mixture of Networking, Programming and Web Development subjects

You only need the subjects listed on page 9.

This would result in a reduced version of the subjects in the Year 1 Stage 1 column of the plan on page 4

* I am only interested in achieving the Certificate III in Information, Digital Media Technology, nothing more.
* I don’t think I will go on to the Certificate IV level.

Go to Page 4 and follow the Year 1 Stage 1 column for details of the subjects you will need to study.

* I am interested in achieving the Certificate III in Information, Digital Media Technology that will prepare me for higher level qualifications.
* I really am not sure which area of IT I would like to specialise (Networking, Programming or Web Development)

## Choosing a Certificate III (across stream flavour) Study Plan

## Choosing a Certificate IV Information Technology Study Plan

You only need the subjects listed on page 9 and 11.

This would result in a reduced version of the subjects in the Year 1 columns of the plan on page 4.

You only need the subjects listed on page 11.

This would result in a reduced version of the subjects in the Year 1 columns of the plan on page 4.

* I am only interested in achieving the Certificate IV in Information Technology, nothing more.
* I don’t think I will go on to the Advanced Diploma.
* I don’t care about Certificate III at 6 months I am committed to studying for at least 12 months
* I am only interested in achieving the Certificate IV in Information Technology, nothing more.
* I don’t think I will go on to the Advanced Diploma.
* I would like to keep the exit option of Certificate III at 6 months.

Go to Page 4 and follow the Year 1 Stage 1 and Year 1 stage 2 columns for details of the subjects you will need to study in each semester.

I am interested in achieving the Certificate IV in Information Technology and

* I really am not sure which area of IT I would like to specialise (Networking, Programming or Web Development)
* I am interested in achieving the Certificate IV in information Technology but I may want to exit after 6 months and would like to keep the early exit option of Certificate III

**The following tables describe the content of each Qualification in detail.**

## Certificate III in Information, Digital Media and Technology (ICA30111)

|  |  |  |  |
| --- | --- | --- | --- |
| Subject | National  Code | Competency Name | Pre-  Requisite |
| 3SWP | **Sustainable Work Practices** | | |
| BSBSUS301A | Implement and monitor environmentally sustainable work practices | N/A |
| 3CUD | **Create User Documentation** | | |
| ICAICT301A | Create user documentation | N/A |
| 3WHS | **Workplace Health and Safety** | |  |
| BSBOHS302B | Participate effectively in OHS communication and consultative processes | N/A |
| 3ITE | **Cisco IT Essentials** | | |
| ICASAS301A | Run standard diagnostic tests | N/A |
| ICAICT302A | Install and optimise operating system software |
| ICAICT202A | Work and communicate effectively in an IT environment |
| ICASAS303A | Care for computer hardware |
| ICAICT303A | Connect internal hardware components |
| ICASAS304A | Provide basic system administration |
| ICASAS306A | Maintain equipment and software |
| 3PITA | **Provide IT Advice** | | |
| ICASAS305A | Provide IT advice to clients | N/A |
| 3PRB | **Programming Basics** | | |
| ICAPRG301A | Apply introductory programming techniques | N/A |
| 4HTMLB | **HTML Basics** | | |
| ICAWEB301A | Create a mark-up language document to specification | N/A |
| ICAWEB409A | Develop cascading style sheets |
| 3CDH | **Cisco Discovery Home** | | |
| ICANWK305A | Install and manage network protocols | 3ITE |
| ICASAS307A | Install, configure and secure a small office home office network |
| ICANWK405A | Build a small wireless local area network |
| 4CEP | **Copyright, Ethics and Privacy in IT** | | |
| ICAICT418A | Contribute to copyright, ethics and privacy in an IT environment | N/A |

## Subject Descriptions

|  |  |
| --- | --- |
| Subject | Description |
| 3SWP | This subject measures current resource use and identifying improvements including the reduction of negative environmental impact caused by work practices. |
| 3CUD | This subject involves following processes to create user documentation that is clear to the target audience which is easy to navigate. |
| 3WHS | This subject involves participation in workplace Occupational Health and Safety (OHS) consultative processes. |
| 3ITE | This course uses the Cisco Networking Academy® IT Essentials curriculum V5 which provides an introduction to the technical skills needed to help meet the growing demand for entry-level ICT professionals. The curriculum covers the fundamentals of computer hardware and software as well as advanced concepts such as security, networking, and the responsibilities of an ICT professional. Students will be eligible to receive the CISCO IT Essential certificate. This course helps students prepare for the CompTIA A+ Essentials exam (220-801) and CompTIA A+ Practical Application exam (220-802). |
| 3PRB | This subject introduces the programming constructs of sequence, selection and iteration, along with an introduction to modularisation, parameter passing, array handling and file processing. Small command-line programs and/or games are developed using the Visual Studio 2010 C#.NET programming language. |
| 4HTMLB | This subject covers the usage and integration of HTML5 and CSS 3. Students will create an interactive website from scratch by coding using the technologies mentioned above. |
| 3PITA | Focuses on skills needed to produce the feasibility analysis for a possible programming solution to a business need. |
| 3CDH | This subject teaches students the skills needed to obtain entry-level home network installer jobs. It also helps students develop some of the skills needed to become network technicians, computer technicians, cable installers, and help desk technicians. It provides a hands-on introduction to networking and the Internet using tools and hardware commonly found in home and small business environments. This subject uses the CISCO Academy Discovery curriculum and is the first subject of the CISCO CENT and CCNA vendor qualification.. |
| 4CEP | This subject involves maintaining professional and ethical conduct as well as to ensure that personal information of stakeholders is handled in a confidential and professional manner when dealing with stakeholders in an information technology (IT) environment. |

## Certificate IV in Information Technology (ICA40111)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Subject | National  Code | | Competency Name | | Pre-  Requisite | | |
| 3SWP | | **Sustainable Work Practices** | | | | |
| BSBSUS301A | | Implement and monitor environmentally sustainable work practices | | N/A |
| 3WHS | | **Workplace Health and Safety** | | | |  |
| BSBOHS302B | | Participate effectively in OHS communication and consultative processes | | N/A |
| 3ITE  (Part) | | **Cisco IT Essentials** | | | | |
| ICAICT202A | | Work and communicate effectively in an IT environment | | N/A |
| 3CDH  (Part) | | **Cisco Discovery Home** | | | | |
| ICASAS307A | | Install, configure and secure a small office home office network | | 3ITE |
| ICANWK405A | | Build a small wireless local area network | |
| 4CEP | | **Copyright, Ethics and Privacy in IT** | | | | |
| ICAICT418A | | Contribute to copyright, ethics and privacy in an IT environment | | N/A |
| 4HTMLB | | **HTML Basics** | | | | |
| ICAWEB301A | | Create a mark-up language document to specification | | N/A |
| ICAWEB409A | | Develop cascading style sheets | |
| 4JSB | | **JavaScript Basics** | | | | |
| ICAPRG405A | | Automate processes | | 3PRB |
| 4IVM | | **Install Virtual Machines** | | | | |
| ICANWK402A | | Install and configure virtual machines for sustainable ICT | | 3ITE |
| 4DBB | **Database Basics** | | | | | |
| ICAPRG402A | | Apply query language | | | 3PRB |
| 4JAB | **Java Basics** | | | | | |
| ICAPRG406A | | Apply introductory object-oriented language skills | | | 3PRB |
| 4CDB | **Cisco Discovery Business** | | | | | |
| ICANWK404A | | Install, operate and troubleshoot a small enterprise branch network | | | 3CDH, CCNA |
| ICTTEN4199A | | Install, configure and test a router | | |
| ICTTEN4198A | | Install, configure and test an internet protocol network | | |
| ICASAS426A | | Locate and troubleshoot IT equipment, system and software faults | | |
| 4UMLB | **UML Basics** | | | | | |
| ICAICT401A | | Determine and confirm client business requirements | | | N/A |
|  | |  | | |
| 4WAP | **Website Authoring and Programming(Includes Adobe Dreamweaver and Word Press)** | | | | | |
| ICAWEB410A | | Apply web authoring tool to convert client data for websites | | 4HTMLB, 3PRB | |
| ICAWEB411A | | Produce basic client site script for dynamic web pages | |
|  | |  | |

## Subject Descriptions

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| --- | --- |
| Subject | Description |
| 4JSB | This subject will cover the basic syntax of JavaScript and enable you to automate client side validation of data on a web page. The use of functions is explored as the concepts behind AJAX are introduced. |
| 4IVM | This subject describes the performance outcomes, skills and knowledge required to develop and implement virtualisation technologies with the goal of providing a more sustainable information and communications technology (ICT) environment. This subject will introduce students to the concept of virtualization and virtualization products such as VMware Workstation, Server, Player, MS Virtual PC, Hyper-V and Oracle Virtual box |
| 4DBB | This subject will cover the basics of SQL and fundamentals of database design including aspects such as primary and foreign keys, and referential integrity. |
| 4JAB | This subject covers Object-Oriented basics using Java – Creating classes (setters, getters, constructors, to String), aggregation/composition, inheritance, polymorphism, arrays, text and binary streams. Net beans are used as the development environment. |
| 4CDB | This subject prepares students for jobs as network technicians and helps them develop additional skills required for computer technicians and help desk technicians. It provides a basic overview of routing and remote access, addressing, and security. It also familiarizes students with servers that provide email services, web space, and authenticated access. Students learn about the soft skills required for help desk and customer service positions, and the final chapter helps them prepare for the CCENT certification exam. Network monitoring and basic troubleshooting skills are taught in context. |
| 4UMLB | This subject will cover the basics of the Unified Modelling Language (UML) diagrams with emphasise on the use of Rational Requisite Pro to produce appropriate use cases. |
| 4WAP | This subject covers two major areas: The development and use of templates to assist in web site creation; and using JavaScript to validate user input on HTML forms. |

# Advanced Diploma of Computer Systems Technology (ICA60511)

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Subject | | National  Code | | | Competency Name | | | Pre-  Requisite |
| 5NIST | **Networking Industry Specific Technologies** | | | | | | | |
| ICAICT514A | | | Identify and manage the implementation of current industry-specific technologies | | N/A | | |
| 5PHPB | **PHP Basics** | | | | | | | |
| ICADBS504A | | Integrate data base with a website | | | | | |
| ICAWEB502A | | Create dynamic web pages | | | 4JSB,4DBB | | |
| 5JAM  (Part) | | **Java For Mobile Development** | | | | | | |
| ICAPRG527A | | | Apply intermediate object-oriented language skills | | | 4JAB |
| 5DWS  (Part) | | **Develop Web Services (ASP.Net and XML Programming)** | | | | | | |
| ICAWEB509A | | | Create web-based programs | | | 4WAP,  5PHPB |
| 5CDD | | **Cisco Discovery Design** | | | | | | |
| ICTTEN6206A | | | Produce an ICT network architecture design | | | N/A |
| ICANWK518A | | | Design an enterprise wireless local area network | | |
| 5JAWB | **Java Web Basics** | | | | | | | |
| ICAWEB501A | | | Build a dynamic website | | | 4JAB | |
| 5CDR | | **Cisco Discovery Routing** | | | | | | |
| ICANWK506A | | | Configure, verify and troubleshoot WAN links and IP services in a medium enterprise network | | | 4CDB |
| ICANWK507A | | | Install, operate and troubleshoot medium enterprise routers | | |
| ICANWK508A | | | Install, operate and troubleshoot medium enterprise switches | | |
| 5MWDB | | **Mobile Website Development Basic** | | | | | | |
| ICAWEB505A | | | Develop complex web page layouts | | | 4HTMLB |
| 5CNW | | **Complex Networks** | | | | | | |
| ICANWK529A | | | Install and manage complex ICT networks | | | 5NIST |
| 6NPS | | **Network Perimeter Security** | | | | | | |
| ICANWK509A | | | Design and implement a security perimeter for ICT networks | | | 5CDD |
| 6EWS | | **Enterprise Wireless Security** | | | | | | |
| ICANWK607A | | | Design and implement wireless network security | | | N/A |
| 6SIMP | | **Systems Implementation** | | | | | | |
| ICAPMG608A | | | Manage IT project systems implementation | | | 6C#MA (Co-requisite) |
| 6C#MA | | **C# Mobile Development Advanced** | | | | | | |
| ICAPRG601A | | | Develop advanced mobile multi-touch applications | | | 5JAM |
| 6CNSA | | **Cisco Network Security (Part A)** | | | | | | |
| ICANWK602A | | | Plan, configure and test advanced server based security | | | N/A |
| 6MITP | | **Manage IT Project** | | | | | | |
| ICAPMG609A | | | Plan and direct complex IT projects | | | 6C#MA (Co-requisite) |

## Subject Descriptions

|  |  |
| --- | --- |
| Subject | Description |
| 5NIST | Identify and manage the implementation of current industry-specific technologies. |
| 5PHPB | This subject covers creating simple databases using MySQL, writing PHP applications to-provide web-based interfaces, processing data, querying MySQL databases, generating web-based reports. These skills will be learnt in the context of common e-commerce applications such as, automated mailing lists, product catalogues, shopping carts, payments systems. This subject also covers securing the web applications using encryption techniques. |
| 5JAM | Builds on 4BJA by looking at collections, GUI development and database connectivity but in a mobile environment using ANDROID. Eclipse is used as the IDE. |
| 5DWS | This subject builds the skills and knowledge required to develop web applications and services using ASP.Net and XML. |
| 5CDD | This subject introduces students to network design processes using two examples; a large stadium enterprise network and a medium-sized film company network. Students follow a standard design process to expand and upgrade each network, which includes requirements gathering, proof-of-concept, and project management. Lifecycle services, including upgrades, competitive analyses, and system integration, are presented in the context of pre-sale support. This subject uses the CISCO Academy Discovery curriculum and is the second subject of the CISCO CCENT2 and CCNA vendor qualification. |
| 5JAWB | This subject covers the development and deployment of J2EE applications. It includes, Servlets, JSP and JSF. Netbeans is used as the IDE. |
| 5MWDB | This subject covers the use of Advanced HTML5 and CSS 3 to create website layouts specifically for mobile devices. |
| 5CDR | This subject familiarizes students with the equipment applications and protocols installed in enterprise networks, with a focus on switched networks, IP Telephony requirements, and security. It also introduces advanced routing protocols such as Enhanced Interior Gateway Routing Protocol (EIGRP) and Open Shortest Path First (OSPF) Protocol. Hands-on exercises, including configuration, installation, and troubleshooting, reinforce student learning. This subject uses the CISCO Academy Discovery curriculum and is the first subject of the CISCO CCENT2 and CCNA vendor qualification. |
| 5CNW | This subject will introduce students to the skills and knowledge required to install and manage enterprise-wide information and communications technology networks, including Voice over IP (VoIP). |
| 6NPS | This subject introduces students to security using the Microsoft Forefront Threat Management Gateway 2010 (TMG). Students will configure security rules that will protect users from Web-based threats by integrating multiple layers of security. Students will configure rules that inspect web traffic at the network, application and content layers to help ensure comprehensive protection. |
| 6EWS | This subject will introduce students to the skills and knowledge required to mitigate security threats to a wireless local area network (WLAN) by implementing security standards and policies |
| 6SIMP | Manage IT project systems implementation. |
| 6C#MA | Develop advanced mobile multi-touch applications. |
| 6CNSA | This subject covers the first half of the Cisco Networking Academy CCNA Security course which provides a next step for individuals who want to enhance their CCNA-level skill set and help meet the growing demand for network security professionals. The curriculum provides an introduction to the core security concepts and skills needed for the installation, troubleshooting, and monitoring of network devices to maintain the integrity, confidentiality, and availability of data and devices. |
| 6MITP | The module will be completed in conjunction with or after the 5IOSMD iPhone Program Development course and will cover the project management aspects of developing a team-based iPhone app. The subject is completed in groups and focuses on complex aspects of IT Software Project Management from initiation, implementation and completion of a project, software metrics including error categorisation and analysis and defect removal efficiency; business continuity including determining and protecting critical systems and identifying recovery methodology processes. |

## Further Information:

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